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POSITION DETECTOR

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Applicant: HONDA MOTOR CO LTD

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- European:

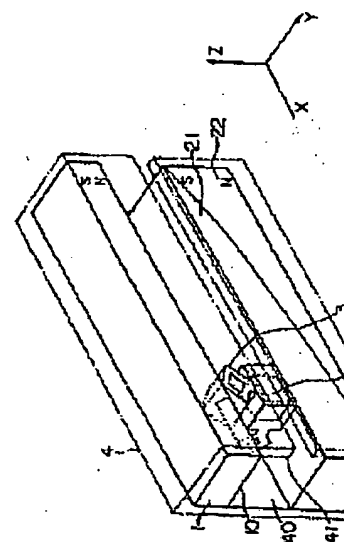
Application number: JP19900142570 19900531

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Report a

Abstract of JP4034312

PURPOSE: To enable highly accurate and stable detection of a position by moving a moving object with a magnetic detector on to a rail with a magnetic flux density varying in a direction of moving to determine the position of the moving object with increase or decrease in the magnetic flux density detected by the magnetic detector. **CONSTITUTION:** A position detector is made up of a rail constituted of an upper magnet section 1 and a lower magnet section 2 and a moving member 3 having a Hall element 30 for magnetic detection inside being sandwiched therebetween. The magnet section 2 is so arranged that the top surface of a permanent magnet part 22 thereof has a magnetic pole opposite to the magnetic pole of the undersurface 10 of the magnet section 1. It is desired that a thickness of a resin part 21 in a direction Y orthogonal to the direction X of the moving member 3 moves is a function of $e^{-\alpha x}$ with respect to a moving distance of the moving member 3. With such an arrangement, an output of the element 30 within the member 3 varies linearly against the movement of the member 3. This enables the reading of the output of the element 30 directly as moving distance without any correction.



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